



**DEPARTMENT OF CHEMISTRY**  
**HOLY CROSS COLLEGE (Autonomous), NAGERCOIL.**

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli.

Nationally Re-Accredited with A\* grade by NAAC (CGPA 3.35))

Kanyakumari District, Tamil Nadu, India.



**Board of studies meeting on 02.02.2021 at 10.00 am via Google Meet**

(Meet link : <http://meet.google.com/srn-gjuk-dbr>)

**Members**

Dr. G. Leema Rose	-	HoD and Chair person
Dr. K. Swarnalatha	-	University nominee, Manonmaniam Sundaranar University, Tirunelveli
Dr. C. Mary Anbarasi	-	Subject Expert, Jeyaraj Annapakiam College, Periyakulam
Dr. C. Sathananthan	-	Subject Expert, Government Arts College, Udhakamandalam, The Nilgiris
Ms. M. Monisha	-	Alumni
Mr. T. Dinesh Selvan	-	Industrialist, Kanam Latex Industries Pvt. Ltd, Kavalkinaru
Dr. M. Anitha Malbi	-	Member
Dr. R. Gladis Latha	-	Member
Sr. K. Francy	-	Member
Dr. S. Ajith Sinthuja	-	Member
Ms. L. DevaVijila	-	Member
Dr. Sheeba Daniel	-	Member
Dr. Y. Christabel Shaji	-	Member
Dr. S. Lizy Roselet	-	Member
Dr. M. Shirly Treasa	-	Member
Ms. B.T. Delma	-	Member

**Agenda**

1. Prayer
2. Welcome by the chair person
3. Reading of the minutes of the previous meeting and approval
4. Restructuring of curriculum for UG Programme
5. Approval of Syllabus for III and IV Semesters with reference books for UG Programme
6. Classification of the courses as Employability/ Entrepreneurship/ Skill development (UG)
7. Classification of the courses as local/ national /regional/ global relevance and cross cutting issues (UG)
8. Restructuring of curriculum for PG Programme
9. Approval of Syllabus for III and IV Semesters with reference books for PG Programme
10. Classification of the courses as Employability/ Entrepreneurship/ Skill development (PG )
11. Classification of the courses as local/ national /regional/ global relevance and cross cutting issues (PG)
12. Recommendation of books, journals for PG programme
13. Conduct of seminars/ workshops in collaboration with Govt. agencies/ Universities/ NGOs
14. Suggestions for innovative teaching and evaluation techniques for UG and PG.
15. New measures to be undertaken by the department
16. Next meeting of BoS
17. Vote of thanks

**Minutes of the Board of Studies meeting of the Department of Chemistry  
held on 02.02.2021 at 10.00 am via Google Meet**

The board of studies meeting commenced with a prayer by Sr. K. Francy. The members of the board, the Chairperson, University Nominee, Subject experts, Industrialist, Alumna and faculty of the department were present for the meeting.

**Chairperson's Address**

The Chairperson and Head of the Department, Dr. G. Leema Rose, welcomed the members and introduced them while briefing on the agenda. The following items in the Agenda were discussed by the members of the board.

**Item 01/BoS 21.02/03: Approval of the minutes of the meeting held on 24.01.2020**

Dr. M. Anitha Malbi read the minutes of the previous meeting which was approved by the board members.

**Item 02/BoS 21.02/04: Restructuring/Revision of curriculum for B.Sc. Chemistry**

The overall structure of the curriculum framed in 2020 was accepted by the board.

**Course Structure**  
**Distribution of Hours and Credits**

Course	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Total	
							Hours	Credits
Part I - Language	6 (4)	6 (4)	6 (4)	6 (4)	-	-	24	16
Part II - English	6 (4)	6 (4)	6 (4)	6 (4)	-	-	24	16
<b>Part - III</b>								
Major Core - Theory	4 (4)	4 (4)	4 (4)	4 (4)	5+5+6 (5+5+6)	6+5+5 (6+5+5)	48	48
Major Core - Practical	2	2 (2)	2	2 (2)	3+3+2	3+3+2 (3+3+2)	24	12
Elective/Project	-	-	4 (3)	4 (3)	4 (3)	4 (3)	16	12
Allied -Theory	4 (3)	4 (3)	4 (3)	4 (3)	-	-	16	12
Allied Practical	2	2 (2)	2	2 (2)	-	-	8	4
<b>Part - IV</b>								
Add on Course (Professional English)	2(2)	2(2)	2 (2)	2 (2)	-	-	8	8
SEC (Skill Enhancement Course)	2 (2)	2 (2)	-	-	-	2 (2)	6	6
AEC (Ability Enhancement Course)	-	-	-	-	2(2)	-	2	2
Non-Major Elective	2 (2)	2 (2)	-	-	-	-	4	4
<b>Total</b>	<b>30(21)</b>	<b>30(25)</b>	<b>30(20)</b>	<b>30(24)</b>	<b>30(21)</b>	<b>30(29)</b>	<b>180</b>	<b>140</b>
<b>Non Academic Courses</b>								
<b>Part -V</b>								
*FC -I (Values for Life)	-	(1)	-	-	-	-	-	1
*FC- II(Personality Development)	-	-	-	(1)	-	-	-	1
*FC-III (Human Rights Education)	-	-	-	-	(1)	-	-	1
*FC -IV (Gender Equity Studies)	-	-	-	-	-	(1)	-	1
*SLP-Community Engagement Course	-	-	(2)	-	-	-	-	2
*SLP-Extension activity (RUN)	-	-	-	(1)	-	-	-	2
*STP - Clubs & Committees / NSS	-	-	-	(1)	-	-	-	2

\* Mandatory Courses conducted outside the regular working hours.

Total number of Hours = 180

Total number of Compulsory Credits = 140+10

**Courses offered for the students of B.Sc Chemistry are given in the following structure**

Semester	Course	Course code	Course	Hours/week	Credits	Total marks	
I	Part I	TL2011/ FL2011	Language	6	4	100	
	Part II	GE2011	General English	6	4	100	
	Part III	CC2011	Major Core I – General Chemistry - I		4	4	100
		CC20P1	Major Practical I – Volumetric Analysis and Inorganic Preparation		2	-	100
		CA2011	Allied I – Theory: Chemistry for Life Sciences		4	3	100
	Part IV	CA20P1	Allied I – Practical – Volumetric and Organic Analysis		2	-	100
		APS201	Add on Course (Professional English)		2	2	100
		SEC201/ SEC202	Meditation and Exercise/ Computer Literacy		2	2	100
		CNM201	Non-Major Elective Course -NMEC		2	2	100
II	Part I	TL2021/ FL2021	Language	6	4	100	
	Part II	GEC202	General English	6	4	100	
	Part III	CC2021	Major Core II – General Chemistry - II		4	4	100
		CC20P1	Major Practical I - Volumetric Analysis and Inorganic Preparation		2	2	100
		CA2021	Allied I – Theory: Chemistry of Biomolecules		4	3	100
	Part IV	CA20P1	Allied I – Practical : Volumetric and Organic Analysis		2	2	100
		APS202	Add on Course (Professional English)		2	2	100
		SEC201/ SEC202	Meditation and Exercise / Computer Literacy		2	2	100
		CNM202	Non Major Elective Course (NMEC) – Applied Chemistry - II		2	2	100
III	Part I	TL2031/ FL2031	Language	6	4	100	
	Part II	GE2031	General English	6	4	100	
	Part III	CC2031	Major Core III – General Chemistry - III		4	4	100
		CC2032	Major – Elective - I a. Pharmaceutical Chemistry		4	3	100
		CC2033	Major – Elective - I b. Material Chemistry				100
		CC2034	Major – Elective - I c. Applied Electro Chemistry				100
		CC20P2	Major Practical II –Semi micro inorganic mixture analysis		2	-	100
	Part IV	CA2031	Allied II – Theory: Inorganic and Physical Chemistry		4	3	100
		CA20P1	Allied II – Practical : Volumetric and Organic Analysis		2	-	100
APS203		Add on Course (Professional English)		2	2	100	
IV	Part I	TL2041/ FL2041	Language	6	4	100	
	Part II	GE204	General English	6	4	100	
	Part III	CC2041	Major Core IV – General Chemistry - IV		4	4	100
		CC2042	Major - Elective – II a. Green Chemistry		4	3	100
		CC2043	Major - Elective – II b. Forensic Science				100
		CC2044	Major - Elective – II c. Instrumental Methods of Analysis				100
		CC20P2	Major Practical II - Semi micro inorganic mixture analysis		2	2	100

		CA2041	Allied II - Theory: Physical Chemistry	4	3	100
		CA20P1	Allied II - Practical - Volumetric and Organic Analysis	2	2	100
	<b>Part IV</b>	APS204	Add on Course (Professional English)	2	2	100
<b>V</b>	<b>Part III</b>	CC2051	Major Core V - Organic Chemistry - I	5	5	100
		CC2052	Major Core VI - Inorganic Chemistry - I	5	5	100
		CC2053	Major Core VII - Physical Chemistry - I	6	6	100
		CC2054	Major - Core Project	4	3	100
		CC20P3	Major Practical III - Gravimetric estimation and Organic preparation	3	-	100
		CC20P4	Major Practical IV- Organic Estimation ,Organic analysis and determination of physical constants	3	-	100
		CC20P5	Major Practical V - Physical Chemistry Experiments	2	-	100
	<b>Part IV</b>	AEC201	Environmental Studies	2	2	100
<b>VI</b>	<b>Part III</b>	CC2061	Major Core VIII - Organic Chemistry - II	6	6	100
		CC2062	Major Core IX - Inorganic Chemistry -II	5	5	100
		CC2063	Major Core X - Physical Chemistry - II	5	5	100
		CC2064	Major- Elective - III a. Bio Chemistry	4	3	100
			Major- Elective - III b. Dairy Chemistry			100
			Major- Elective - III c. Analytical Chemistry			100
		CC20P3	Major Practical III - Gravimetric estimation and Organic preparation	3	3	100
		CC20P6	Major Practical IV Organic Estimation ,Organic analysis and determination of physical constants	3	3	100
		CC20P7	Major Practical V - Physical Chemistry Experiments	2	2	100
	<b>Part IV</b>	SEC203	Chemistry for Competitive Examination	2	2	100

### Non Academic Courses

#### Part V

Semester	Course code	Course	Credits
I & II	FCV201	*FC -I (Values for Life)	1
III	SLP201	*SLP-Community Engagement Course	2
III & IV	FCV202	*FC- II(Personality Development)	1
IV	SLP202	*SLP-Extension activity (RUN)	2
IV	STP201	*STP - Clubs & Committees / NSS	2
V	FCV203	*FC-III (Human Rights Education)	1
VI	FCV204	*FC -IV (Gender Equity Studies)	1
		<b>Total</b>	<b>10</b>

## Self Learning Course – Extra Credit Courses

Semester	Course code	Title of the paper	Credits
III/V	CC20S1	Soil Science and Agricultural Chemistry	2
IV/ VI	CC20S2	Chemistry of Cosmetics	2
III - VI	CC20S3	Online Course	2

## Value Added Courses

S. No.	Course code	Name of the course	Hours
I	VAC201	Food Science	30
II	VAC202	Chemistry of Cosmetics	30

**Item 03/BoS 21.02/05: Approval of Syllabus of B.Sc. Chemistry for III and IV Semesters with the following suggestions/ Recommendations**

The BoS members approved the courses in Semester III and Semester IV for UG programme.

- The TANSICHE syllabus for the core courses General Chemistry III and IV is followed for the III and IV semesters with slight modifications.
- Based on the feedback received the allied courses Inorganic and Physical Chemistry (III semester) and Physical Chemistry (IV semester) for Physics major students are specially designed.
- The core courses 'Organic Chemistry I and II' are revised into 'General Chemistry III and IV'
- The elective courses Dairy Chemistry and Industrial Chemistry are replaced by Pharmaceutical Chemistry and Green Chemistry.
- The practical Organic Analysis and Preparation is replaced by Semi micro inorganic mixture analysis.
- New courses introduced for B.Sc. Chemistry students in the new structural revision of Curriculum

Semester	Course Code	Courses
III	CC2031	Major Core III – General Chemistry - III
	CC2032	Major – Elective - I Pharmaceutical Chemistry
	CA2031	Allied II – Theory: Inorganic and Physical Chemistry
IV	CC2041	Major Core IV – General Chemistry - IV
	CC2042	Major - Elective – II Green Chemistry
	CA2041	Allied II - Theory: Physical Chemistry
	CC20P2	Major Practical II - Semi micro inorganic mixture analysis

## Recommended Books for B.Sc. Chemistry

The BoS members recommended the following books based on the modified/Revised syllabus for B.Sc. Chemistry

- M.K. Jain and S. C. Sharma, Modern Organic Chemistry, Visal Publishing Co, 2015.
- B.R. Puri, L.R. Sharma, K.K. Kalia, Principles of Inorganic Chemistry, 23<sup>rd</sup> edn, New Delhi, Shoban Lal Nagin Chand & Co., 1993.
- B.R.Puri, L.R.Sharma and M.S.Pathania, Principles of Physical Chemistry. 47<sup>th</sup> edn, Vishal Publishing Co., 2017.

**Item 04/BoS21.01/06: Classification of the courses as Employability/ Entrepreneurship/ Skill development**

Semester	Course Code	Name of the Course	Employability	Entrepreneurship	Skill development
III	CC2031	Major Core III – General Chemistry - III	✓		
	CC2032	Major – Elective - I Pharmaceutical Chemistry	✓		
	CA2031	Allied II – Theory: Inorganic and Physical Chemistry	✓		
	APS203	Add on Course (Professional English)			✓
IV	CC2041	Major Core IV – General Chemistry - IV	✓		
	CC2042	Major - Elective – II Green Chemistry	✓		
	CC20P2	Major Practical II - Semi micro inorganic mixture analysis			✓
	CA2041	Allied II - Theory: Physical Chemistry	✓		
	APS204	Add on Course (Professional English)			✓

**Item 05/BoS 21.02/07: Classification of the courses as local/ regional/national/ global relevance and cross cutting issues**

The members of the board classified the UG courses in the new structure based on local/ regional/national/ global relevance and cross cutting issues.

Semester	Course Code	Name of the Course	Local	National	Regional	Global
III	CC2031	Major Core III – General Chemistry - III				✓
	CC2032	Major – Elective - I Pharmaceutical Chemistry				✓
	CA2031	Allied II – Theory: Inorganic and Physical Chemistry				✓
	APS203	Add on Course (Professional English)				✓
IV	CC2041	Major Core IV – General Chemistry - IV				✓
	CC2042	Major - Elective – II Green Chemistry				✓
	CC20P2	Major Practical II - Semi micro inorganic mixture analysis				✓
	CA2041	Allied II - Theory: Physical Chemistry				✓
	APS204	Add on Course (Professional English)				✓



Semester	Course Code	Name of the Course	Gender Equity	Environment and sustainability	Human values	Professional ethics
III	CC2031	Major Core III – General Chemistry - III				
	CC2032	Major – Elective - I Pharmaceutical Chemistry				
	CA2031	Allied II – Theory: Inorganic and Physical Chemistry				
	APS203	Add on Course (Professional English)				
IV	CC2041	Major Core IV – General Chemistry - IV				
	CC2042	Major - Elective – II Green Chemistry		✓		
	CC20P2	Major Practical II - Semi micro inorganic mixture analysis		✓		
	CA2041	Allied II - Theory: Physical Chemistry				
	APS204	Add on Course (Professional English)				

**Item 06/BoS 21.02/08: Restructuring/Revision of curriculum for M.Sc. Chemistry**

**Course Structure - M. Sc Chemistry Programme**

**Distribution of Hours and Credits**

Course	Sem. I	Sem. II	Sem. III	Sem. IV	Total	
					Hours	Credits
Core - Theory	6 (5) + 6 (5) + 6 (5)	6 (6) + 6 (5) + 6 (5)	6 (5) + 6 (5)	6 (6) + 6 (5) + 6 (5)	66	57
Core - Practical	4+4	4+4 (4+4)	4 +4	4+4 (4+4)	32	16
Elective	4 (3)	4 (3)	4 (3)	4 (3)	16	12
Project	-	-	6 (5)	-	6	5

TOTAL	30 (18)	30 (27)	30 (18)	30 (27)	120	90
*Life Skill Training - I	-	(1)	-	-	-	1
*Life Skill Training - II	-	-	-	(1)	-	1
* Service Learning Programme (SLP) - Community Engagement Course	-	(1)	-	-	-	1
*Summer Training Programme	-	(1)	-	-	-	1

\* Mandatory Courses conducted outside the regular working hours.

Total number of Hours = 120

Total number of Compulsory Credits = 90+4

### M. Sc Chemistry - Courses offered (2021 - 2023)

Semester	Course code	Course	Hours/week	Credits
I	PG2011	Core I Structure and Bonding	6	5
	PG2012	Core II Reaction Mechanism and Stereochemistry	6	5
	PG2013	Core III Chemical Kinetics and Electrochemistry	6	5
	PG2014	Elective I (a) Analytical Chemistry	4	3
	PG2015	(b) Electrochemistry		
	PG20P1	Practical I Inorganic Chemistry - I	4	-
	PG20P2	Practical II Organic Chemistry	4	-
II	PG2021	Core IV Coordination Chemistry	6	6
	PG2022	Core V Reaction Mechanism and Molecular Rearrangements	6	5
	PG2023	Core VI Quantum Chemistry and Spectroscopy	6	5
	PG2024	Elective II (a) Research Methodology	4	3
	PG2025	(b) Nuclear Chemistry		
	PG20P1	Practical I Inorganic Chemistry - I	4	4
	PG20P2	Practical II Organic Chemistry	4	4
III	PG2031	Core VII Spectroscopy, Spectrometry and their Applications	6	5
	PG2032	Core VIII Thermodynamics and Group Theory	6	5
	PG2033	Elective III (a) Advanced Topics in Chemistry	4	3
	PG2034	(b) Medicinal Chemistry		
	PG20P3	Practical III Inorganic Chemistry - II	4	-
	PG20P4	Practical IV Physical Chemistry	4	-
	PG20PR	Project and Viva	6	5
IV	PG2041	Core IX Inorganic Photochemistry, Spectroscopy and Organometallics	6	5
	PG2042	Core X Photochemistry, Pericyclic Reactions, Heterocycles and Natural Products	6	6
	PG2043	Core XI Polymer Chemistry	6	5
	PG2044	Elective IV (a) Energy for the Future	4	3
	PG2045	(b) Nanochemistry		

	PG20P3	Practical III Inorganic Chemistry - II	4	4
	PG20P4	Practical IV Physical Chemistry	4	4
		<b>TOTAL</b>	<b>120</b>	<b>90</b>

**Self-Learning Course (Extra Credit Course)**

Semester	Subject code	Title of the paper	Credits
III	PC20S1	Chemistry for Lecturership examination - I	2
IV	PC20S2	Chemistry for Lecturership examination - II	2
III-IV		Online courses	2

**Item 07/BoS21.02/09: Approval of Syllabus of M.Sc. Chemistry for III and IV Semesters with the following suggestions/ Recommendations**

The BoS members approved the Papers in Semester III and Semester IV for PG programme.

i. The following courses during the III and IV semesters are revised/ modified based on the feedback from the students & Alumni.

SL No.	Semester	Course code	Course	Changes	
				Revised (if any)	Modified (if any)
1	III	PG2031	Core VII Organic Spectroscopy	Revised	-
2	III	PG2032	Core VIII Thermodynamics and Group Theory	Revised	-
3	IV	PG2041	Core IX Inorganic Spectroscopy, Photochemistry and Organometallics	Revised	-
4	IV	PG2042	Core X Photochemistry and Natural Products	Revised	-
5	IV	PG2043	Core XI Polymer Chemistry	Revised	-
6	IV	PG20P3	Practical III Inorganic Chemistry - II	-	Modified
7	IV	PG20P4	Practical IV Physical Chemistry	-	Modified

**Core VII - Organic Spectroscopy**

- Unit II <sup>1</sup>H NMR Spectroscopy, Temperature dependent NMR should be included.
- Unit V Structural Elucidation using Analytical and Spectral Data, structural elucidation of minimum 20 compounds of all types should be worked out.

## Core VIII - Thermodynamics and Group Theory

- Unit III Statistical Thermodynamics, types of particles can be included.
- Unit IV Group Theory I, in the construction of the character table include  $C_{2h}$  point group instead of  $C_{4v}$ .

## Elective III – Advanced Topics in Chemistry

- Unit III Supramolecular Chemistry, cyclodextrins should be included.
- Unit IV Medicinal Chemistry, the term 'anti-neoplastic agents' should be replaced by 'anticancer drugs'. Include cis-platin, vinblastine and vincristine in anticancer drugs.

## Core X Photochemistry and Natural Products

- Unit III Retrosynthetic Analysis, include cubane along with bisabolene, cis-jasmone and longifolene. Synthetic uses of nitrocompounds and alkenes also can be added.
- Unit IV Alkaloids, structural elucidation of papaverine, chinconine and nicotine should be excluded. Replace lysergic acid with morphine.

## Core XI Polymer Chemistry

- Unit I Chemistry of Polymerization, stereo regulating polymerization should be included.

## Elective IV – Energy for Future

- Unit III Wind Energy, include places where wind energy is generated.

## Physical Chemistry Practical IV

- In potentiometric titration replace one redox system with mixture of acids versus strong base (HCl/CH<sub>3</sub>COOH vs NaOH).

## i. New courses introduced for M.Sc. Chemistry in the new structural revision of Curriculum

Sl. No.	Semester	Course code	Course
1	III	PG2031	Core VII Organic Spectroscopy
2	III	PG2032	Core VIII Thermodynamics and Group Theory
3	IV	PG2041	Core IX Inorganic Spectroscopy, Photochemistry and Organometallics
4	IV	PG2042	Core X Photochemistry and Natural Products
5	IV	PG2043	Core XI Polymer Chemistry

## ii. Recommended Books for M.Sc. Chemistry

The BoS members recommended the following books based on the modified/Revised syllabus for M.Sc. Chemistry

1. Ireland, R.E. (1969). Organic Synthesis. Prentice Hall, Englewood Cliffs, New Jersey, U.S.A.
2. Carruthers, W. (2015). Modern Methods of Organic Synthesis. (4<sup>th</sup> ed), Cambridge University Press
3. Rodriguez, F., Cohen, C., Ober, C.K. & Archer, L. (2015). Principles of Polymer Systems. (6<sup>th</sup> ed), CRC Press.

**Item 08/BoS21.02/10: Classification of the courses as Skill development/Employability/Entrepreneurship (PG)**

Semester	Course Code	Name of the Course	Employability	Entrepreneurship	Skill Development
III	PG2031	Core VII Organic Spectroscopy	✓		
III	PG2032	Core VIII Thermodynamics and Group Theory	✓		
III	PG2033 PG2034	Elective III (a) Advanced Topics in Chemistry (b) Medicinal Chemistry	✓ ✓		
III	PG20PR	Project	✓		✓
IV	PG2041	Core IX Inorganic Spectroscopy, Photochemistry and Organometallics	✓		
IV	PG2042	Core X Photochemistry and Natural Products	✓		
IV	PG2043	Core XI Polymer Chemistry	✓		
IV	PG2044 PG2045	Elective IV (a) Energy for the Future (b) Nanochemistry	✓		
IV	PG20P3	Practical III Inorganic Chemistry - II	✓		✓
IV	PG20P4	Practical IV Physical Chemistry	✓		✓

**Item 09/BoS 20.01/11: Classification of the courses as local/ national/ regional/global relevance and cross cutting issues (PG)**

The members of the board classified the UG courses in the new structure based on local/ national/regional/ global relevance and cross cutting issues.

Semester	Course code	Name of the Course	Local	National	Regional	Global
III	PG2031	Core VII Organic Spectroscopy				✓
III	PG2032	Core VIII Thermodynamics and Group Theory				✓
III	PG2033 PG2034	Elective III (a) Advanced Topics in Chemistry (b) Medicinal Chemistry				✓
IV	PG2041	Core IX Inorganic Spectroscopy, Photochemistry and Organometallics				✓
IV	PG2042	Core X Photochemistry and Natural Products				✓
IV	PG2043	Core XI Polymer Chemistry				✓
IV	PG2044 PG2045	Elective IV (a) Energy for the Future (b) Nanochemistry				✓
IV	PG20P3	Practical III Inorganic Chemistry - II				✓
IV	PG20P4	Practical IV Physical Chemistry				✓

Semester	Course Code	Name of the Course	Gender Equity	Environment and sustainability	Human values	Professional ethics
III	PG2031	Core VII Organic Spectroscopy				
	PG2032	Core VIII Thermodynamics and Group Theory				
	PG2033 PG2034	Elective III (a)Advanced Topics in Chemistry (b)Medicinal Chemistry		✓		
	PG2041	Core IX Inorganic Spectroscopy, Photochemistry and Organometallics				
IV	PG2042	Core X Photochemistry and				

		Natural Products				
	PG2043	Core XI Polymer Chemistry				
	PG2044 PG2045	Elective IV (a) Energy for the Future (b) Nanochemistry		✓		
	PG20P3	Practical III Inorganic Chemistry - II		✓		
	PG20P4	Practical IV Physical Chemistry		✓		

**Item 10/BoS 21.02/12 Recommendation of journals for PG programme**

The members suggested to subscribe the following journals to the general library for the department.

1. International Journal of Chemical Sciences
2. International Journal of Pure and Applied Chemistry
3. IOSR Journal of Applied Chemistry
4. Research Journal of Chemistry & Environment

**Item 11/BoS 21.02/13: Suggestions on conducting seminars/ workshops in collaboration with Universities/ Industries/ NGO/ other organizations**

Workshops and seminars by faculty from MSU/MKU/ NIIST/CUSAT etc were suggested.

Workshops and seminars in collaboration with the parent University is recommended

**Item 12/BoS 21.02/14: Suggestions for innovative teaching and evaluation techniques**

The BoS members suggested the following methodologies to enhance teaching, learning and evaluation.

- i. Use of the participative learning techniques such as Flipped Class room, Group discussion, problem solving, case study etc
- ii. New mode of evaluation which rely on the creativity rather than memorizing, group activities, a rich campus experience etc. has to be incorporated.

**Item 13/BoS 21.01/15: Discussion on coordination of teaching, research, extension and other activities of the department**

**New Measures**

- Professional English to enhance communication skill has been initiated.
- In collaboration with the IIC of the college a webinar on IPR was organized.

**Item 14/BoS 21.02/16: Next Meeting of the BoS**

The members of the board suggested to have the next meeting of BoS in the first week of August, 2021.

The meeting came to an end at 2.45 pm with the vote of thanks by the Chairperson of the BoS.

**Ratification**

- The I & II semester NMEC syllabus for four hours per week has been reduced to two hours per week to compensate the add on course - Professional English.

**Department of Chemistry**  
**Report of the Feedback Received and Action Taken on Curricular Aspects**  
**2020-2021**

Department	Stakeholders	Feedback received 2020-2021	Action taken 2021-2022
B.Sc	Students	i. Need more practical classes.	Since it was pandemic period, we could not conduct practical classes as usual. Once regular classes start (offline) sufficient practical classes will be conducted.
		ii. New elective courses may be offered	New elective courses - Pharmaceutical and Biochemistry are offered during 2020 - 2023.
		iii. Clinical chemistry may be extended to all the departments as value added course	Clinical chemistry is offered as value added course from 2021 - 2022
	Parents	Curriculum is good	
	Teachers	-	
M.Sc	Alumni	Separate syllabus for Allied Chemistry for physics and Life sciences may be framed	Separate syllabus for Allied Chemistry for physics and Life sciences are framed
	Employers	-	
	Students	i. Curriculum is good. ii. Coaching for competitive examination is needed	"Chemistry for Lectureship" is being offered



	Parents	Career oriented courses may be offered	Courses like Polymer Chemistry and Analytical Chemistry are offered
	Teachers	More reference books are needed	More reference books are requested
	Alumni	Research oriented learning can be offered	Research oriented learning is given in projects and practicals
	Employers	-	

### Feedback from students

#### B.Sc



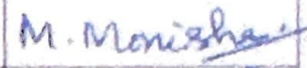
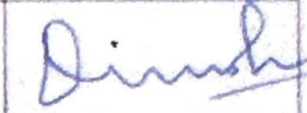


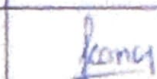
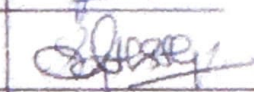
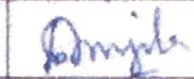
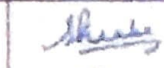

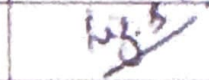
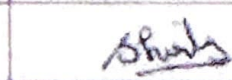
- Curriculum is designed to widen knowledge on chemistry.
- Value added courses and elective courses are useful.
- More practical classes are needed.

#### M.Sc

- Career oriented courses may be included in the curriculum
- Coaching for competitive examination is needed.

#### Name of the students

1. Ms. S. Snow Havi Dev
2. Ms. M. Kasthuri

Name of the Members	Designation	Signature
Dr. G. Leema Rose	HoD & Chair Person	
Dr. K. Swarnalatha	Associate Professor (University Nominee)	
Dr. C. Mary Anbarasi	Associate Professor (Subject Expert)	
Dr. C. Sathananthan	Assistant Professor (Subject Expert)	
Ms. M. Monisha	Alumini	
Mr. T. Dinesh Selvan	Industrialist, Kanam Latex Industries Pvt. Ltd, Kavalkinaru	
Dr. M. Anitha Malbi	Assistant Professor	
Dr. R. Gladis Latha	Assistant Professor	
Sr. K. Francy	Assistant Professor	
Dr. S. Ajith Sinthuja	Assistant Professor	
Ms. L. DevaVijila	Assistant Professor	
Dr. Sheeba Daniel	Assistant Professor	
Dr. Y. Christabel Shaji	Assistant Professor	
Dr. S. Lizy Roselet	Assistant Professor	
Dr. M. Shirly Treasa	Assistant Professor	
Ms. B.T. Delma	Assistant Professor	